



CLAIMS

for

TITLE: REUSABLE VACUUM PRESSING BAG EMPLOYING SURFACE-
TENSION PROPERTIES OF THE BAG MATERIAL AS A REUSABLE SEAL
FOR REPETITIVE HIGH PRESSURE APPLICATIONS

Application # 10/699,436

CLAIMS

I claim:

1. Method for using surface-tension properties of polished vinyl and other plastic sheeting as a reusable seal on a vacuum pressing bag. Taking advantage of the material's surface tension, the seal is created when the vinyl is pressed into contact with the corresponding material. Hand pressure will flatten the two sheets together where surface tension will create the seal that converts the bag into a vacuum chamber. The flap over the slit protects the seal and is used as a handle to open the bag.
2. A process for using a vacuum bag chamber as a press for drying items contained within by applying pressure of 20in/Hg and greater. The bag is welded on all four edges with a slit in the upper panel and a flap overlapping the slit. The item or work is placed inside the bag through the slit and placed away from the slit so that the upper and lower parts of the bag will come into intimate contact with each other at the leading edge of the slit.
3. Attaching a one-way quick-disconnect valve to the bag allows the bag to be evacuated and detached from the vacuum pump. This frees the work space for other uses as well as multiplying the available pressing devices with low-cost vacuum bags. Because the bags continue to hold contents under pressure until the pressing cycle is complete, production bottlenecks at this point are diminished.